MISSOURI BOTANICAL GARDEN
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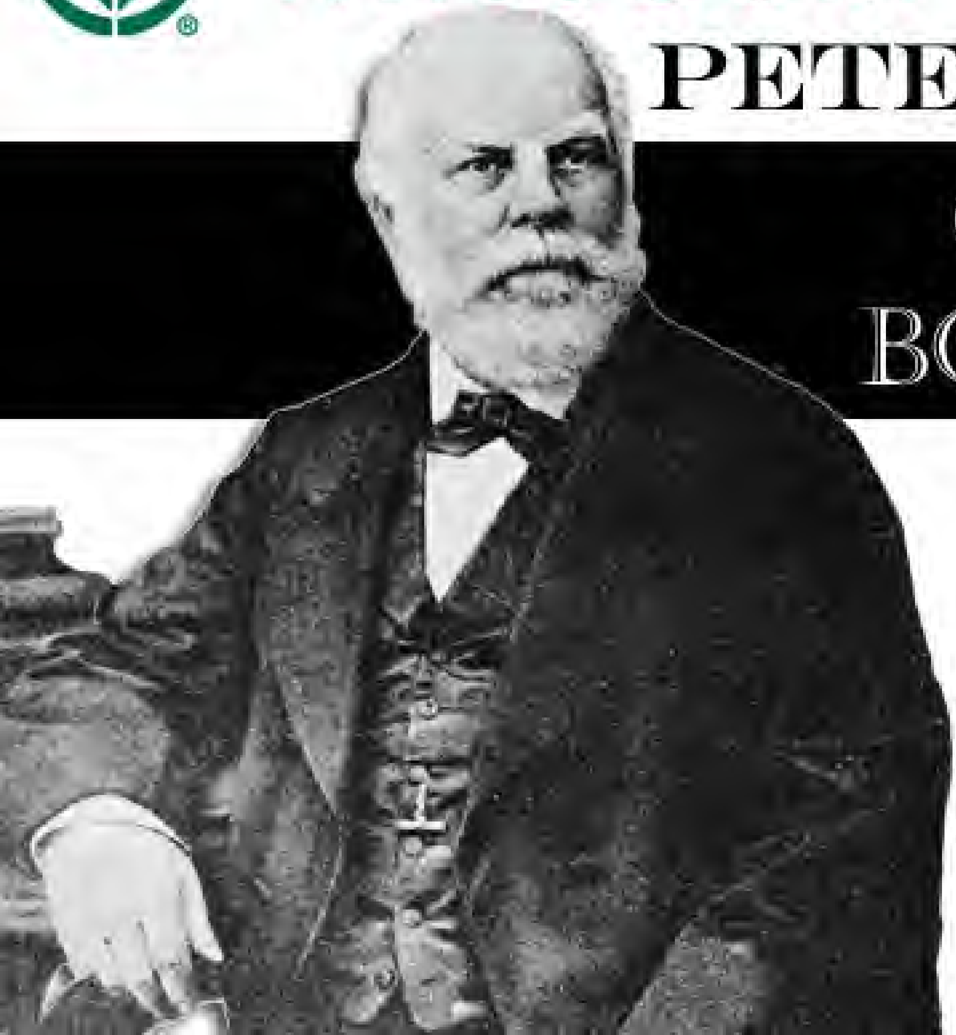

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2097-2136

Cacteae

Cultur

Culture

Correspon

Notes

~~& Maps~~

3437

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Culture

May 1863

Box with the Californian Echinocacti

left side 1st series 105. M. Scheidweileriana belongs to Schelhasei aqueous

Dead 2, 95. M. rhodantha first specimen typical, with many small radial setae and about 6 large recurved dark interior spines; the other specimens 6 spec. without extern. setae and with 4–6 larger recurved spines. All have Aqueous Juice in the plant – but milky in the lower rape like part! 6 sp.

Dead 3 Californian Echinocactus from Parry ??

2 sp. of a reddish, milky Mam with 2–4 spines and a little evanescent wool in axils

2 sp. of a plant, named 63 M. Kewensis, but ~~absolutely~~ about = the specimens of the 2d row of Rhodantha, without ext. bristles, 6 ext. recurved spines, milky juice only in the base!

Dead 4 2 specim. under nro 10... (illegible) both milky; the upper, larger one with 5 radial and 1 central, and bristles in axils; the 2d smaller one with 2–4 sp., axils naked

4 milky specimens, marked 11, (M. tetracantha) ~~with~~ 3 of them with 1–2 larger spines and some bristles on lower part of areola; the 4th one with 1–3 spines and almost without bristles

1 spec (and young ones) of 72 Mam multiceps

5 series Ech. Ottonis above, and below the 3 specimens are planted the subterranean soboles, which I found attached to the specimens

1 specimen of 131. Echino. (penicillatus pro temp) seed from South California sent by Dr LeConte – [Plant exactly like young E. longehamatus

Dead ~~1 specimen~~ of Ech obvallatus No 19.–

2 sp. of Ech. mamillosus No 4

6. Ech Ottonis; after that

Ech. sine nro

Ech or Coryphantha ? sine nro

Mam (41) Caracasana – but wrong, a lactescent one, tetracantha or the like

Dead Mam. 2 sp. under the same nro, illegible, slightly lactescent (juice a little tinged) at base, upper larger one with short radial bristles and 4 brown inner spines – allied to rhodantha the 2d smaller spec. with longer red sp. and very different look smaller Mam; like etc

Box with Mam. barbata

first series to left 23 Echin. gibbosus (rodentior) 2 specim.

6, Echin. uncinatus pelliff. = erinaceus sabulosus 1 spec 13 sharp ribs – immersed areol. 5(–7) radial sp. (1 inferior – none superior) central deflexed

an Echin. without nro 14 ribs interrupted, 6-7 radial weak sp – 1 stout angular deflexed central, often a second upper one smaller, directed upward

2 series 35 Mam barbata 2 spec

27 Echinoc. erinaceus (4) 3 spec. 13-16 sharp ribs 8 radial, 1 deflexed central, no upper one (smaller sp. with erect central sometimes)

3d – 13 Ech. Sellowii (3) 5 sp equal to larger sp. of last –

4th 110 Mam. Selmiana Fenzl lact. 4 sp. near sempervivi in that pl. short mamillae 4 (rarely 5) cruciate short spines – dark at tip
I find no descr of M. Selmiana

5th 48 M. erinacea [illegible] 2 sp lact. – correct!

36 M. cruciata ?? lact. 1 spec (3-4 cruciate sp. rarely some radial bristles)

82 M pentacantha ? lact – 1 sp 4 cruciate sp. no radial

6th 1 sp. sine nom. many white rad bristles, 4 brown central recurved not lact. at all, though similar to rhodantha – can it be discolor?

4 spec of a small lactescent Mam (see e,) with a single central sp probably microthele or Stuebii ?

7th (3) 4 sp. of 66. M. Meissneri but very incorrect – a livid lactescent plant, with 3-4 central short spines, and a few bristles or none see f,

Box with Mammillaria Schelhasii ?

dead ~~first row to left.~~ 5 sp. label illegible, lactescent; all with 2, rarely 3 central sp – 1st without others with four or more radial ones

dead ~~2d series,~~ 4 sp lactescent, 3-4 central no radial sp.

dead ~~3d series~~ 5 sp. ⋮ lactescent, 4-6 stout radial & mostly 1 central sp.

4th series 2 sp. No 106 Mam. Schelhasii (more like M. Wildiana?) succ. aq.

1 sp. No 120 with 4 (3-5) central and few bristles or none, (120 is M. Wildiana – which is entirely diff.) – succ. aquos.

dead ~~1 sp No 49 3-4 central & some bristles~~ Mam Galeottii succ aquos

(M. Galeottii said to be form of dolichocentra, which this may be)

5th Ser. 3 spec of No 122 M. Webbiana (see g) (correct?) succ. aq.

6 Ser. 1 sp. sine nom Mam. 4-6 large recurved brown spines lowest largest
1 sp. — — — 4 longer slenderer paler recurved spines.
~~1 sp No 45 M dolichocentra~~ probably correct } succ. aq.

dead

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Box of Mam vivipara

1 series 4 sp of succ. aq. sine nom a/ b/ c/
2d — 4 sp. — — — — — b,
3d 4 sp. which had been left dry from c/Nov. 1860 – June 1862
4th 4 sp — ——— ——— d, ———
All the balance Mam vivipara

Opuntia box

Op. hystricina ? Utah H. Engelmann
Op. Utahensis " " "
Op. Missouriensis
Op. fragilis
Op. Pes Corvi
Op. from Santa Fe? phaeacantha ?

was formerly kept in open ground, but was often frostkilled almost to the base.

1, a/ 1, 8–10 radial setae 4 curved central, 1 upward 3 downward   1.2.3. same spec?
b/ 2. (4–) 5 downward 1 shorter & longer upward curved — no dusky setaceous radial ones ?
3. similar, spines shorter = b.3.
b, 1. 3 longer downward, 1 shorter one upward — no radial setae
2 similar, upper one longer
3 5 lower, 1 upper = a.3.
4 8–10 radial setae 2 (upper & lower) divergent central ones, short, stout (lactescent)
2 c, 1. = a.1 but 6 central divergent spines
2 = a.2
3 3 = a.1 but only 4 central spines.
d, 1, 6–8 rad — uppermost almost central, upward directed — (aqueous)
2, 2–4 central spines no rad. or rarely any (lact)
3. 2–4 — — — radial setae (lact) = 2 ?
4 4 central ones, scarcely any setae (lact) = 2
e, 1, larger, not lactescent now (in Nov 1864) short mamillae, keeled upward), about 16 rad. sp. lower ones longer, an upper & lower divergent central one
2, smaller 20–22 radial ones, lateral longest (pectinate!) 2 (upper & lower) stout divergent central lact
3 & 4, yet smaller 16 radial pectinate, a single erect central one lact
f, 1, 8–10 radial recurved, 2 (upper & lower) divergent central ones, lact
2, 4 cruciate sp. rarely 2 upper additional ones ⁘ or ⁙ lact
3, 4 stouter cruciate sp., rarely with numerous short radial bristles.
g, 1. & 2, 4 spines, upper 3 curved, shorter, lower stouter longer, straight
3, 2–4 spines, 1–3 upper shorter, curved, lower longer straight

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Echinocactus

	at Greaves'	Roetter?	Shaw	Goebel
E. texensis	1	1	1	1
E. longehamatus	1	1 1	1	1
E. setispinus	1	1 1	1	1
E. Scheerii	1	var 1 1	1	

6c. 16? Echinocactus 1;
label unreadable

Cereus

Greaves	Greav	Roetter	Shaw	Goebel
C. enneacanthus	1	1	1	
C. cinerascens	1		1	
C. variabilis	1			
C. Fendleri	1	1		1
C. viridiflorus	1	1	1	
C. chloranthus	1	2		
C. tuberosus	1			1
C. paucispinus	1	1	1	1
C. caespitosus	1	1	1	1
C. Berlandieri	1	1	1	1
C. procumbens		1	1	1
C. longisetus		1	1	
C. giganteus	1	1	1	
C. adustus		1		
C. Greggii		1	1	
C. Schottii		1		
C. dasyacanthus	1	1		1

longisetus
giganteus
Greggii
adustus
Gregg
Schottii

	Gray	R	Shaw.	Goebl
C. stramineus		1	1	1
C. Roemeri		1	1	
C. triglochidiatus		1		1
C. phoeniceus			1	
C. polyacanthus			1	

Opuntia

	Graves	Roetter	Shaw
O. Whipplei	1	1 1	
var spinosior Engm		1	
O. Grahami	1		
O. clavata	1	1 1	
(O. tunicata	1		
(β. laevior	1		
O. Engelmanni	1	1	1
O. filipendula	1	1	
O. Wrightii	1	1	
O. basilaris	1	1	
O. vulgaris	1	1	
O. gilensis	1	1	
O. phaeacantha	1	1 1	2 1
O. tenuispina	?		1
O. missouriensis	1	1	1
O. fragilis	1	1 1	1
(O. platyacantha	1		

	Greaves	Roetter	Shaw
O. vestita	1		
O. leucotricha	1		
O. mamillata		1	
O. hystricina		1	
O. bulbosa		1	
" ex sur. Bigel.		1	
O. arenaria		1	
O. dulcis		1	1 R
O. frutescens		1	
O. missouriensis		1	
var platycarpa		1	
O. angustata		1	
O. montana		?	
O. sphaerocarpa		?	
O. Camanchica		1	
O. tortispina		1	
O. occidentalis		1	
O. intermedia		1	
O. macrorhiza		1	
O. Rafinesquii		1	
O. vulgaris		1	
O. coccinellifera			1

mamillata
hystricina
= bulbosa
fusiformis
ex Bigel
arenaria
dulcis
frutescens
missouri platycarpa
angustata
Camanchica
tortispina
occidentalis
intermedia
bulbosa
macrorhiza
Rafinesquii

Mamillaria

	at Greaves'		Roetters'	Shaw Gord.
M. macromeris	1	1	1	
calcarata	1	1		
radiosa	1	1	1	1
vivipara	1	1	1	
sphaerica	1	1		
pusilla tex	1	1	1	
Nuttallii	1	1		1
similis	1	1	1	
tuberculata	?	1		
applanata		1	1	
compacta		1	1	
pectinata		1		
hemisphaerica			1	1
scolymoides			1	
gummifera			1	
melacantha			1	

3436

Desiderata.

Cactaceae ex Hort Berolin

Opuntia nigricans
— Todaroana
— pubescens
— Kaminskiana
— megacantha
(— fulvispina)

Cereus pruinosus
— niger
— Russelianus

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3437

Dr Engelmann (Landhaus, Mittelstraße)
ersucht Herrn Urban ihm baldigst seine
Schuhe und (wenn sie fertig sind) die
bestellten Pantoffeln zu übersenden,
da er bald abzureisen wird.

Freitag Morgen

I wish to get
living plants of

Rhipsalis Swartziana

Rh. pachyptera or laete viridis
or purpurascens

Epiphyllum violaceum grandiflorum
" hybridum

Rhipsalis rhombea

Lepismium Knightii

L. commune

Opuntia Tweedii

O. Candelabriformis

O. aurantiaca — no fr.

Phyllocactus latifrons, crenatus, and others, alatus

Pereskia Bleo (aculeata?)

P. grandifolia

Rhipsalis sine nomine —
3 — angusta

Ah. mesembr. & Salicorn. [illegible]

Opuntia Tweedii

O Candelabriformis

O megacantha

O [illegible] Salm = = Brasiliensis ?

O. aurantiaca

Cer [illegible] Sellowi [illegible]

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" Cer [illegible] (hybrid) 4–5 angled

1 inch diam very pale

Cereus Martinii ? fls!

C. Roemeri a good sp.

C. Leeanus similar to [illegible]

C. [illegible]

Look out for fls of C. [illegible] 28th

in the bed

M. Californ. 3in high 6–11 cent broad

~~Look out Cer. [illegible] [illegible] of [illegible]~~

Pereskia Bleo [illegible]

Corona [illegible] [illegible]

10–18 [illegible] pale [illegible] [illegible]

3 [illegible] round long — foliaceous bracts

[illegible] with + any sp

[illegible] backed

~~Cer [illegible]~~

Yucca filifera coarse fibres narrow leaves

— ~~[illegible]~~ broad margin leaves

[illegible] fibres (in [illegible])

Agave filamentosa [illegible]

going to bloom

A Saponaria [illegible] Mexico 1 ft

foliaceous scape, flaccid leaves

= Virginica, but more fleshy —

very delicately serrulate

3438

MISSO[illegible] GARDEN

Notes in Hort Vindob 1858

Jan 16th

A good many of my seeds sent since 10 years have germinated

Lechuguilla of Dr Wislizenus several fine stout plants

Agave of Dr Wislizenus, said to differ from A. americana

Yucca crassifila
longifolia
angustifolia

Dasylirion both species

Opuntia a fine specimen from the seeds of Dr Wislizenus! with the woolly spines at the base a true O. Engelmanni

O. Lindheimeri — evidently a half breed near grandiflora

O. missouriensis

O. macrorhiza

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Cactaceae from California

In Prince Salms Work 1850:

Mam. Goodrichii Scheer   Echinocactus californicus Monv.

In Forsters Work 1846

no species is ~~menti~~ enumerated; but he says pag 6 in note, Humboldt says in his work on New Spain vol II p. 223 "The Visitador Don José Galvez found in California naked mountains -- and in the crevices of rocks sometimes Opuntiae — and page 225: "at the foot of the California mountains nothing is seen but sand or rock, on which grows a cylindric Cactus (Organos del Tunal) of extraordinary hight"

[probably my Cereus giganteus]

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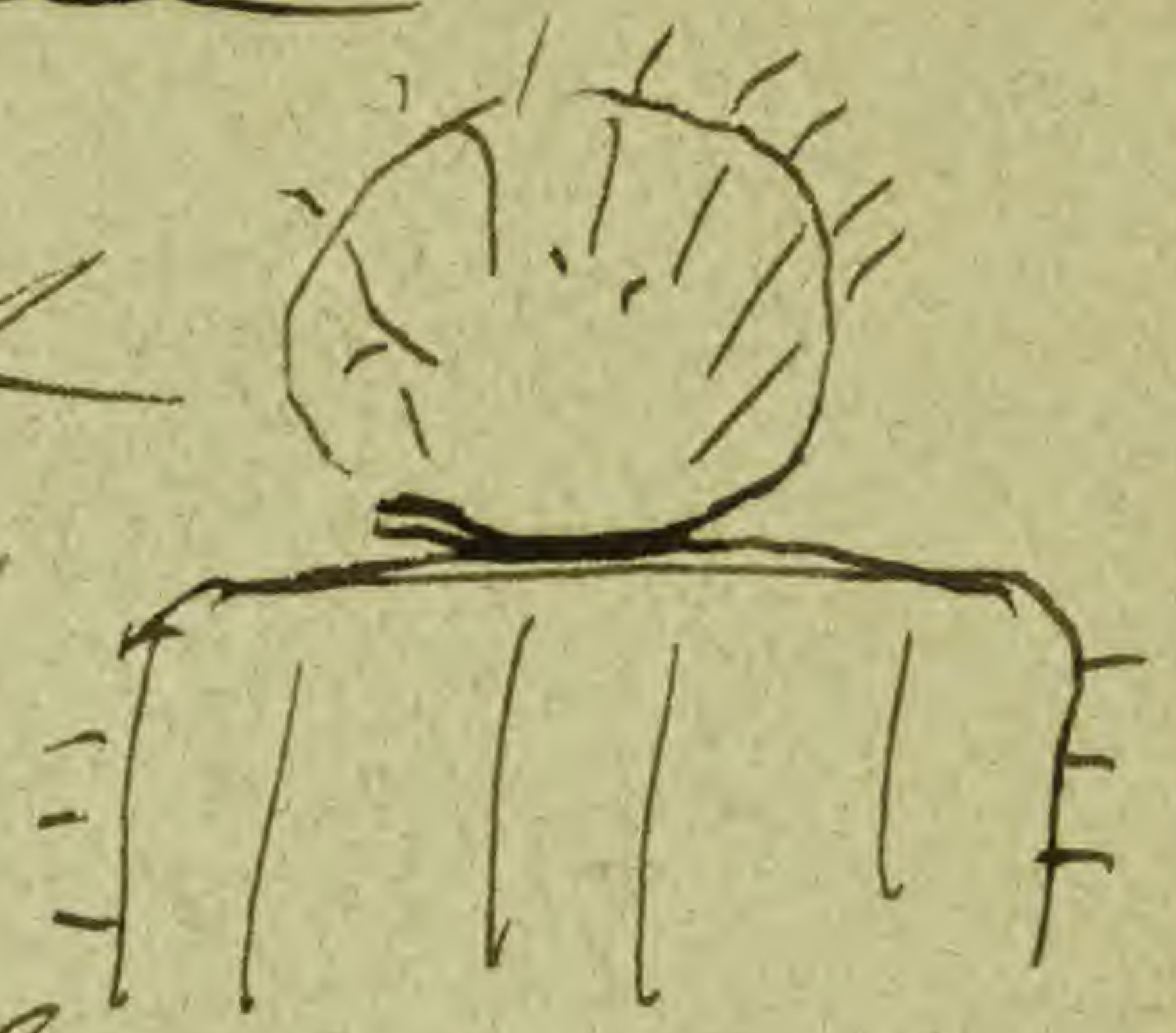
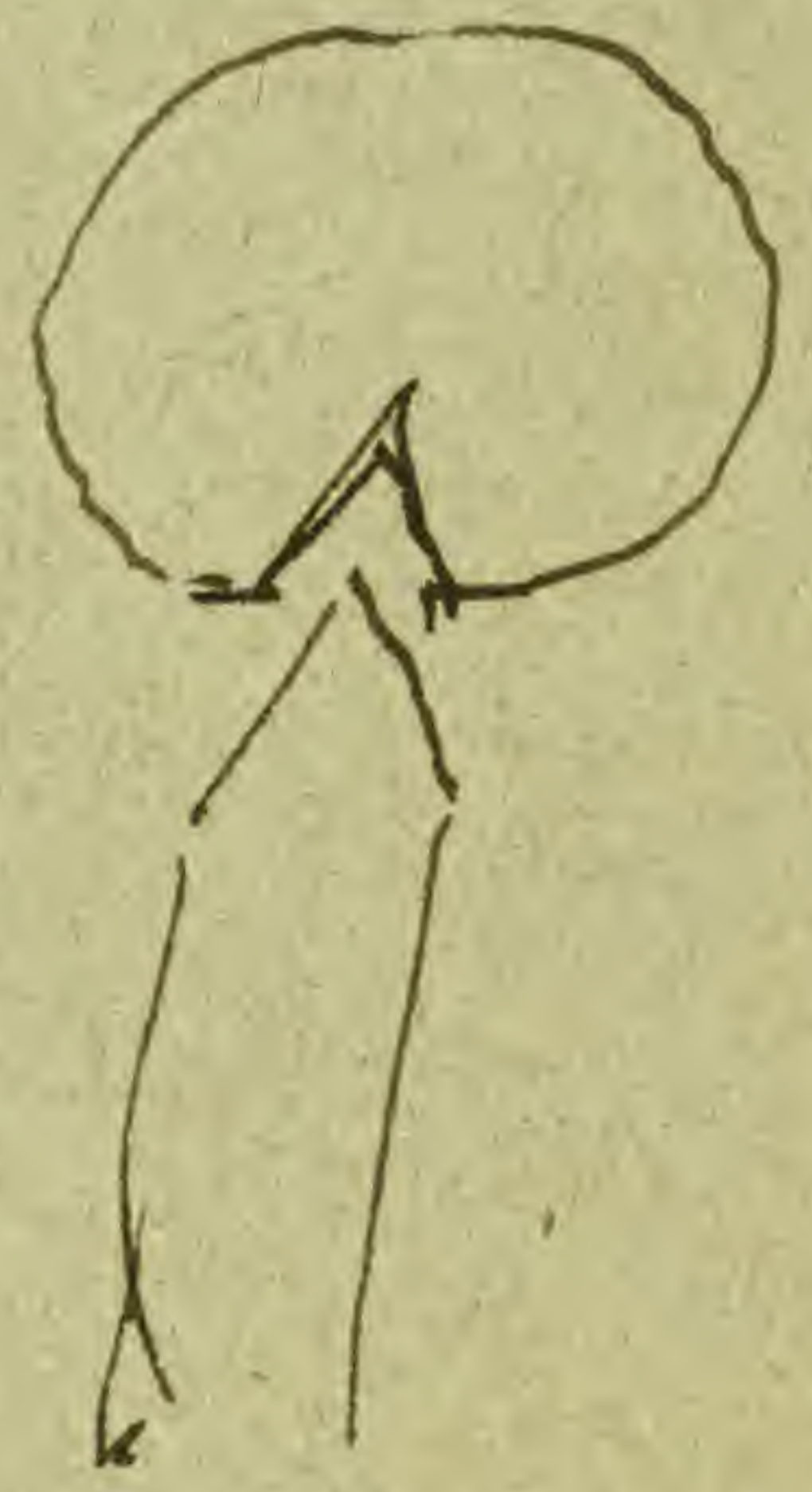
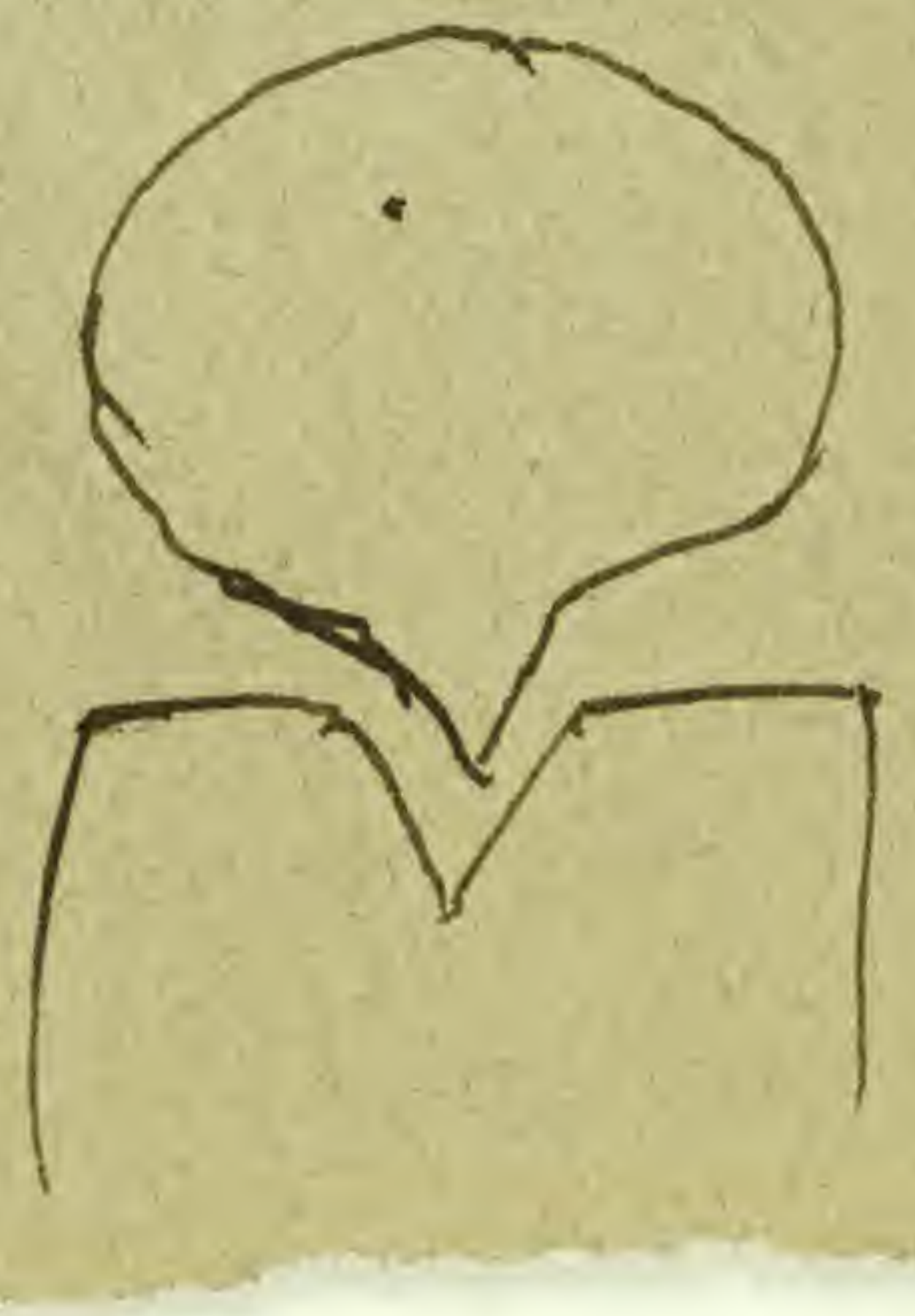
Mr Pfersdorf grafts Cactaceae

on the (slightly rounded, on account of shrinking) fresh surface, ties with loose wool —

He is careful that the wood vessels should touch and cross their rings







Other manners of grafting.

3441

List of Cactaceae sent to Goebel
Decemb 1855

all of Dr Poselgers specimens
——— Seegers' "

3 Mam. macromeris
3 —— micromeris
1 —— lasiacantha
Echinocactus Engelmanni
E. —— longehamatus
Cer. aggregatus
enneacanthus
Fendleri
dasyacanthus
chloranthus
viridiflorus
longisetus
polyacanthus
pectinispinus
triglochidiatus
Opuntia arenaria 3

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Dead Cacti May 1861

Greaves seedlings

67
96
83
123
43
89
39
88
7
73
34
25
73
46
42

44
2
15
86
98
38
57
74
107
102

JONES & LEITCH
Druggists
Cor. Fifth & Market Sts. St. LOUIS, Mo.

Gibson, 33, Olive St.

℞ ~~Argent nitric~~

3443

Cactaceae of St Thomas

Schlechtendal in Linnaea

III. 251 V....

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3444

J. C. KIR

No. 2600 OLIVE STREET,

ST. LO

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Mr ~~[illegible]~~ W. Seeger sends:

Enum. Cact. Pfeiff. 1837
Beschreibung u. Pfeiff. 1837
Revue des Cactées
DeCandolle 1829
Abbild. & Beschr. blühender
Cact. Pfeiff. & Otto
2 vol. 60 plates

Allg. Gartenzeitung
einzelne Blätter 1848–1855
Neue Blumenzeitung
einzelne Blätter 1851 – 1855

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3445

Enno Sander,
Ecke der Zweiten und Walnut Straße,
unter Barnum's Hotel,
Saint Louis, Mo.

MISSOURI BOTANICAL GARDEN
PAPERS

Nov 1864

In May 1863 I had yet of Greaves' Cacti-seedlings the following — (partly with wrong names!)

4 Ech. submammulosus !
6 Ech. uncinatus (wrong!)
13 Ech Sellowianus
19 Ech obvallatus dead now
23 Ech reductus !
27 Ech erinaceus
35 Mam. barbata (ag) !
36 M. crocidata lact.
41 M. caracasana
45 M. dolichocentra (ag)
48 M. erinacea (lact, !
49 M Galeotti (ag).
63 M Kewensis (sublact)
66 M Meissneri lact Ho
72 M multiceps ag. !
82 M. pentacantha lact
95 M rhodantha setis aspers (basis lactens!)
105 M Scheidweileriana (ad Schelhasii) (ag) !
106 M. Schelhasii ag. !
112 M Sempervivi microthele lact.
113 M. tetracentra lact
114 M. tetracantha ag.
116 M uncinata lact !
122 M Webbiana longispina ag.
131 Ech. pinctulatus pro temp
LeConte Califor.

3446

Cactus seeds distributed. March 1859

			Bigelow	Roetter	Greaves	
1.	Echinocactus polycephalus	1854				
2.	E. viridescens	1857	Newberry	X	~~⊗ ?~~	
3.	E. Wislizeni	old, Schott.		1	1	
4	E. submammulosus	1857			⊗	germinated
5.	E. mammulosus	1857		X		
6	E. uncinatus	Poselg. 1850		1	① ??	
7	E. corynodes	1856			X	
8	E. hystrichacanthus	Poselg. 1851		1		
9.	E. piliferus	" 1850			1	
10	E. cornigerus	" 1851		1	1	
11	E. ingens	" 1850		1	1	
12	E. sinuatus robustus	" "		1		
13	E. Sellowianus	1857			⊗	
14	E. ~~pumilus~~ vid. 26	1857		X		
15	E. Linkei	1857			1	
16	E. acuatus	1853		1		
17	Ottonis β. tenuispin.	1853			1	
18	Tenuispinus	1856		X		
19	obvallatus				⊗	
20	gracillimus			X		
21	lancifer				1	
22	trifurcatus Jacoby			X		
23	reductus = Echinoc. gibbosus DC				⊗	Jacoby 1857
24	dichroacanthus			X		
25	Monvillei				1	
26	Malacocarpus Sellowianus			X		
27	— erinaceus vide 13				⊗ ?	
28	Melocactus communis				1	
29	" " Dyck Kew			1		
30	" amoenus Poselg.			1	1	

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Cactus seeds distributed March 1859

				Roetter	Greaves	
31.	Mamillaria auriceps Lem.	Baumann	1856			
32	M aurea	Leipzig	1857		/	
33	auricoma Ehrenb.		1850	/		
34	aeruginosa	Leipzig	1857		/	
35	barbata Engl.	Baumann	1858	x	ⓧ	
36	crocidata Lem.	Jacobi	57	x		
		Baumann	56		ⓧ	? lat
37 +	centricirrha	Jacobi	57	x		
38	conopsea Scheidw.	Baumann	56		x	
39	columnaris Mart.	München	1853	x	/	
40	carnea Zucc.	"	1848		/	
41	caracasana Otto	Baumann	1856	x	/ ??	
42 +	Conceptidaris Mart.	Jacobi	1857		x	
43	Dyckiana Zucc.	Baum.	"	x	/	
44	deflexispina	"	1856		/	
45	dolichocentra	Jacoby	1857	x		
		Baumann	1858		ⓧ	aq.
46	euchlora Ehrenb	"	1857	x	/	
47	erectacantha	Jacobi	"	x		
48	erinacea Pos	Mexico	1852	x	ⓧ	lat
49 +	Galeotti Otto	Baum.	55	x	ⓧ	aq
50 +	var phaeacantha	München "	1858 53		/	
51	gladiata	Jacobi	57	x		
52	Grahami E.	Newberry	1858	/		
53	formosa Scheidw.	Baum.	56	x		
		Jacobi	57		/	
54	fuscata	"	"	x		
55 +	foveolata Muhlenpf.	"	"		/	
56	Fellneri Ehrenb.	Seeger	1850	/		
57	Foersteri Muhlenpf.	Baum.	56		x	
		Jacobi	57	x		
58	Hystrix Mart.	Baum.	56		x	
		Jacobi	57	/		
59 +	Hermanni Ehrenb. β. flavirosa	Baum	57	/	/	
60	hamata	Jacobi	57		x	

3448

				Roetter	Greening	
61	Mam. isabellina Ehrenb.	Leipz.	1850		/	
62	imbricata Wegn.	Baum.	56.	X	/	
63	Kewensis S. Dyck. a. albisp. –	Baum	57.	X	ⓧ	
	= rhodantha 95 with red. sp. – succ, basi lect					
64	Karstenii Poselg				/	
65	Karwinskiana Mart.	Baum	56.	X	X	
66	Meissneri Ehrenb.	"	57	X	ⓧ	Cact
					incorrect	
67	macracantha	Hort Dyck	57		X	
68	mutabilis	"	"	X		
69	Cact. microthele Muhlpf.	Baum	57	X	X	
70	megacantha	Jacobi	57	X		
		Salm	57		X	
71	magnimamma Haw.	Baum	57	/	X	
72	multiceps near pusilla	Dyck	57	/	⊘	
73	nigra Ehrenb.	Baum.	56	X	/	
74	Neumanniana	Jacoby	57		X	
75	odieriana	Leipz	57		X	
76	" rubra	"	"	X		
77	polythele	"	"	X		
78	" latimamma	Dyck	"	/	X	
79	" quadrispina	"	"		X	
80	" affinis	Jacobi	"	X		
81	" stenocephala	Poselg			/	
82	pentacantha Pfeiff.	Baum	56	X	Cact ⊘	
83	procera Ehrenb.	"	"	X	/	
84 +	phellosperma Engel.	Schott	55	/		
85 +	pusilla major	Dyck	57		/	
86	pulchella	"	"		X	
87	pycnacantha	Baum	58	X		
88	polyedra Mart.	Baum.	56	X	X	
89	phaeacantha	Jacobi	57		X	
90	purpurascens Ehrenb.	Leipz.	50		/	
91	pruinosa Ehrenb.	Jacobi	57	/		
92	quadrispina Mart	Poselg		X	X	
93	rutila Zucc.	Münch.	51		/	
94	recurva Lehm.	Jacobi	57	X		
		Baum	56		/	

95) plantae succo aquoso, in basin lacteo! — (June 3) areol. inter. 4-6 —
setis nullis, processus parvis, 2 nectaries Vastt. Green.

95. Mam. rhodantha Lk & Otto Berlin 48 — 1
var Andreae Münch 57 x) ①
96 — spinosissima Lem. Baum. 56 1
97 — " — var flavida SDyk " " x
98 — simplex Haw. Wien 1842 1 1
99 stenocephala Leipzig 57 x
100 Seitziana Mart. Baum 56 x 1
101 Stueberi Jacobi 57 1
102 subpolyedra Pfeiff. Baum 56 1
103 x sulcoglandulifera Jacobi Jacobi 57 XX 1
104 spectabilis " 57 1
105 x Scheidweileriana Otto aquosa Baum 56 1 ⊗
106 Schelhasei Pfr. var. of Schelhasii Dyck 57 1
107 Schiedeana Baum 56 ① aq.
Leipzig 1857 1
108 subtetragona Jacobi 56 1
109 setosa Jacobi 56 x
110 Salmiana Haage? Mühlenpf? Jacobi lact. ①
111 Sempervivi laete virens Jacobi 57 x
112 — macrothele — — ① lact
113 tetracantha Hort Berol Leipzig 1857 x lact
2-4 sp. often setulae besides Baum 56 ⊗
114 ~~tuberculata~~ Vogel ~~Schotter 55~~
tetracantha aquos areol 2-4 recurv. Leipzig 57 aq. 1 ② (another 114 is milky
115 tomentosa Ehrenb original seed 1
116 uncinata lactesc Jacobi 56 ⊗
117 Uhdeana Salm " 57 x
118 umbrina Ehrenb Leipzig 1850 1
119 vulpina Ehrenb Baum 1858 x
120 Wildiana Otto Jacobi 57 1
Baum 1853 x
121 Webbiana Jacobi 57 x
122 ?. — longispina " — ① aq
123 Zuccariniana Münch 57 1

					Roetter	Graves
124	Cereus	eriophorus ~~Ehrenbergii~~ ??	venice Venedig	1857		1
125	C.	Seidelii	Berlin, Posely	1857	1	
126	C.	princeps	Mexico Posely	1850		1
127	C.	gemmatus ?	Tampico	1850	1	
128	C.	geometrizans	Mexico Posely	1850		1
129	C.	Napoleonis ?	" "	1850	1	1
130	C.	triangularis	venice	1857	1	1
131	C	(Echinocactus / new punctulatus protea — ~~Emoryi~~	Californ Le Conte	1850 sent also to Europe	~~1~~	①
132	C.		Venezuela Fendler	1855 sent to Europe	1	1
133	C	(Phyllocactus	Isthmus, Schott	1858		1
134	C.	Roetteri ?	El Paso seed figured Sem Cact. XIV. fig 1.	1853	1	1
135	C.	Roetteri	El Paso, Wright B.	1851	1	1
136	Opuntia		Fendler, Venezuela 465	1855		1
137	O.		Schott Darien gross	1858	1	
138	O		" " klein	1858	1	
139	C.	myriacanthus	Mendoza Hb. Hooker	1844		1

Cactus Samen geschickt an

Salm Dyck
Senke Leipz
Baumann Wien
Poselger Berli

3449